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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/710,355	07/02/2004	Toru Iwai	SIC-04-010	8415	
29863 . 7	7590 12/09/2005		EXAM	EXAMINER	
DELAND LAW OFFICE			TORRES, MELANIE		
P.O. BOX 69 KLAMATH RIVER, CA 96050-0069			ART UNIT	PAPER NUMBER	
***********			3683		
			DATE MAILED: 12/09/2005 .		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Summary	10/710,355	IWAI ET AL.		
Office Action Guilliary	Examiner	Art Unit		
The MAU INC DATE of this communication one	Melanie Torres	3683		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>02 Not</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4)	r election requirement. r. epted or b)□ objected to by the E	•		
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11). The oath or declaration is objected to by the Expression of the correction of	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
		7.00.017.07.10.117.7.0		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/2/05.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-15 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otomo (JP 2679162) in view of Shima et al. (JP 56134089).

Re claims 1-4 and 9-15 and 22, Otomo teaches a disk brake rotor apparatus capable of use as a bicycle brake rotor comprising: a generally circular first rotor (1) member with a first fixing (5) component structured to mount the first rotor member to a hub mounting member, a generally circular first second rotor (2) member with a first second fixing component (5) structured to mount the first second rotor member to the hub mounting member, wherein the first rotor member is attached to a side of the first second rotor member, and wherein the first second rotor member is formed of a material having greater braking wear resistance than the first rotor member wherein the first rotor member (1) comprises a first fixing component (5) structured to mount the first rotor member to a hub mounting member. Otomo does not teach wherein the first second rotor member is pressure welded to the first rotor member. Shima teaches pressure welding a first second rotor member to a first rotor member. It would have

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been obvious to pressure weld the two components in order to prevent failure of brake discs comprised of dissimilar metals.

Claims 5-8 are deemed by the examiner to be product by process claims.

Product by process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps.

Re claims 12-15, See Figures 1-5, Otomo.

Re claim 14, Otomo as modified does not teach wherein the fasteners are aluminum. It would have been obvious to one of ordinary skill in the art at the time the invention was made since aluminum fasteners are known for their corrosion resistance.

3. Claims 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otomo in view of Shima et al. as applied above and further in view of Seymour.

Re claims 16-21, Otomo as modified as modified does not teach wherein the hub mounting member comprises a centrally disposed hub attachment component structured to be mounted to the hub; and a rotor attachment component extending radially outwardly from the hub attachment component and structured to mount to the first fixing component, to the first second fixing component and to the second second fixing component. Seymour teaches a hub mounting member (Figure 3) comprising a centrally disposed hub attachment component structured to be mounted to the hub; and

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a rotor attachment component extending radially outwardly from the hub attachment component and structured to mount to the first fixing component, to the first second fixing component and to the second second fixing component. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the hub mounting member of Seymour in the apparatus of Otomo as modified in order to facilitate connection of the rotor to the hub.

Response to Arguments

4. Applicant's arguments with respect to claims 1-22 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Torres whose telephone number is (571)272-7127. The examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on (571)272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MT

November 22, 2005

Nelanie Torres Primary Examiner 11-22-05